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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/939,736	08/28/2001	Yoshiro Ishikawa	011036	3857
38834	7590 03/09/2005		EXAMINER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP			SAFAIPOUR, HOUSHANG	
1250 CONNECTICUT AVENUE, NW SUITE 700		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20036			2622	
			DATE MAILED: 03/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	_				
	09/939,736	ISHIKAWA ET AL.					
Office Action Summary	Examiner	Art Unit	_				
	Houshang Safaipour	2622					
The MAILING DATE of this communication ap		the correspondence address	_				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a replept within the statutory minimum of thirty (divill apply and will expire SIX (6) MONTHE, cause the application to become ABAN	y be timely filed 30) days will be considered timely. IS from the mailing date of this communication. IDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	·						
2a) ☐ This action is FINAL . 2b) ☑ Th	☐ This action is FINAL. 2b) ☐ This action is non-final.						
3) Since this application is in condition for allow	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-9 is/are pending in the application							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
· _ · · · · · · · · · · · · · · · · · ·) Claim(s) <u>1-9</u> is/are rejected.						
•	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examin	ner.						
10)⊠ The drawing(s) filed on <u>28 September 2001</u> is		-					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the corre							
11) The oath or declaration is objected to by the E	examiner. Note the attached (Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 1	19(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:							
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 							
	· ·						
 Copies of the certified copies of the pri application from the International Burea 	•	eceived in this National Stage					
* See the attached detailed Office action for a lis		ceived					
and account detailed office action for a list	a of the contined copies not le	ooiveu.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Sur	nmary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/I	Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	3) S) Notice of Info 6) Other:	rmal Patent Application (PTO-152)					

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Berg (U.S. Patent No. 6,118,553).

Regarding claim 1, Berg discloses an image scanner comprising:

an elongate body (fig. 1);

a line sensor extending in the body longitudinally thereof for reading an original document as the body moves along the document (fig. 8, CCD 21);

a roller shaft rotatably supported in the body to extend longitudinally of the body (fig. 1, roller 26);

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at least one roller supported on the roller shaft for rotating therewith while rolling on the document 9fig. 1, roller 26);

a rotary encoder for detecting the rotation of said at least one roller for determining a scanning distance of the body, the rotary encoder including a rotary disk supported on a disc shaft; and a drive transmission for connecting said at least one roller to the rotary encoder; wherein the disc shaft extends in a direction crossing the roller shaft (fig. 5, encoder wheel 44, shaft 36, roller 26 and axis 60, col. 3, line 64 through col. 4, line 36).

Regarding claim 2, Berg discloses the image scanner according to claim 1, wherein the disc shaft extends perpendicularly to the roller shaft (fig. 5).

Regarding claim 3, Berg discloses the image scanner according to claim 2, wherein the body has an image reading surface for facing the document while the line sensor reads the document, the rotary disc being oriented parallel to the image reading surface (figs. 1 and 5)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Berg (U.S. Patent No. 6,118,553).

Regarding claim 4, Berg discloses an optical detector (48) mounted on the board 86.

Berg does not disclose expressly that the board is situated parallel to the image reading surface. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to mount the plate (substrate) parallel to the image reading surface. Applicant has not disclosed that substrate being parallel to the image reading surface provides an advantage, is used for a particular purpose or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either the plate in vertical or horizontal position.

Therefore, it would have been obvious to one of ordinary skill in this art to modify Berg to obtain the invention as specified in claim 4.

Claims 5-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Berg (U.S. Patent No. 6,118,553), and further in view of kokubo et al. (U.S. Patent No. 5,953,497).

Regarding claim 5, Berg does not explicitly disclose the image scanner wherein the drive transmission comprises a first pulley mounted on the roller shaft, a second pulley mounted on the disc shaft, a belt wound around the first pulley and the second pulley, and a pair of intermediate pulleys for bending the belt. However, Kokubo discloses such an image forming device (fig. 2, col. 4, lines 56-67). Therefore it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to modify Berg to use pulleys and belt for the drive system.

Regarding claim 6, Berg does not explicitly disclose the image scanner wherein each of the first pulley and the second pulley has a circumferential engaging surface, the circumferential engaging surface of the first pulley differs diametrically from that of the second pulley.

However, Kokubo discloses such an image forming device (fig. 2). Please refer to claim 5.

Regarding claims 7-9, please refer to arguments and references under claims 5 and 6.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Houshang Safaipour whose telephone number is (703)306-4037. The examiner can normally be reached on Mon.-Thurs. from 6:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L Coles, Sr. can be reached on (703)305-4712. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Houshang Safaipour Patent Examiner Art Unit 2622 March 3, 2005

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